

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	35002	fuel cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:13
S2	282959	hydrophilic or hydrophobic	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:14
S4	212325	electroly\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:15
S5	7484	S2 same S4	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:15
S6	1661	S1 and S5	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:15
S7	248405	anode or cathode of electrode	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:16
S8	7855	S2 and S4 and S7	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:17
S9	1303	S2 same S4 same S7	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:17
S10	681	S9 and S1	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:17
S11	3154508	gradient or multilayer\$3 or vary or varied or varying	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:18
S12	7065	S11 near5 S4	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:18
S13	46	S12 and S10	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:27
S14	1951	S2 near5 S4	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:28
S15	4	S14 near5 S11	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 15:40

## EAST Search History

S16	30	("2614976"   "2927887"   "3498899"   "3546087"   "3681025"   "3686091"   "3703457"   "3730868"   "3800410"   "3856649"   "3911901"   "4002547"   "4105509"   "4115209"   "4214968"   "4282079"   "4357143"   "4507194"   "4552625"   "4597848"   "Re24222").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 14:30
S17	3390	S11 near5 hydrophilic	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 16:04
S18	2510	S11 near5 hydrophobic	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 15:50
S19	55	S17 same (anode or electrode)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 16:05
S20	35	S17 same S4	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 16:09
S21	1294	ion same S12	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 16:12
S22	219	S21 and S1	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 17:24
S25	595296	condens\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 17:25
S26	6030	S1 and S25	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 17:25
S27	2256	S26 and (S25 same (stack or anode or cathode or electrode or output))	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 17:26
S28	866	S26 and (S25 near5(stack or anode or cathode or electrode or output))	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 17:27
S30	308	S28 and reformer	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 17:27
S31	426	S28 and reform\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 17:28
S32	232	S31 and burn\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 17:28
S33	898	((anode with (out or outlet)) with condens\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 20:05

## EAST Search History

S34	36	S33 and (reform\$3) and burn\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/08 20:45
S35	703	anode same condens\$3 same burn\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 16:55
S36	37780	anode same water	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 16:56
S37	555408	membrane or electroly\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 16:56
S38	88262	(ion or charg\$3) near4 partic\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 16:57
S39	19088	S37 and S38	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 16:57
S40	1607	S36 and S39	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 16:58
S41	1507	flood\$3 same anode	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 16:59
S42	45	S40 and S41	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 17:10
S43	10132	anode near4 (water or vapor)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 17:46
S44	3155	S43 and fuel cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 17:46
S45	3080	S44 and S37	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/09 17:47
S46	14967	(membrane or separator) and electroly\$3 and (conductive or ion or ionic)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/08/10 10:26
S47	2407456	multilayered or layer\$3 or multi\$2layered or bi\$2layer or bilayer	FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/08/10 13:51
S48	4130	S46 and S47	FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/08/10 10:27
S49	1237	S48 and (fuel cell)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/08/10 10:27
S50	300	S49 and (water or vapor)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/08/10 13:44

## EAST Search History

S51	32	"5260143"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 16:37
S52	1	"20020001744"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 10:58
S53	7	"6379829"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 10:57
S54	4	"6696186"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 10:52
S55	9320	conducti\$3 near3 charg\$3	FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/08/10 11:52
S56	174	concentrat\$3 and S55	FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/08/10 11:53
S57	2	S56 and (fuel cell)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/08/10 11:53
S58	74	humid and anode	FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/08/10 13:50
S59	804	sulfonat\$3 near4 charges	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:51
S60	212541	electroly\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:51
S61	0	S47 same S60	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:51
S62	1963128	multilayered or layer\$3 or multi\$2layered or bi\$2layer or bilayer	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:59
S63	63585	S62 same S60	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:52
S64	3	S63 same S59	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:56
S65	888273	sulf\$5	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:56
S66	721261	electroly\$3 or separator or membrane	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:58
S67	79853	S65 same S66	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:58

## EAST Search History

S68	150129	S62 same S66	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:58
S69	27860	S67 and S68	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:58
S70	101356	multilayered or multi\$2layered or bi\$2layer or bilayer	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 13:59
S71	17222	S70 same S66	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 14:00
S72	2681	S67 and S71	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 14:00
S73	173	S72 and (fuel cell)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 14:01
S74	169	S73 and (anode or cathode or electrode)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 14:24
S78	2	"9741168"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2007/08/10 15:39
S79	10	S51 and S65	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2007/08/10 15:39
S80	73	("3012086"   "3172784"   "4037024"   "4631239"   "4684582"   "4729932"   "4795683"   "4826741"   "4826742"   "4973530"   "5047298").PN. OR ("5366818"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 15:45
S81	20729	water near5 (anode or negative)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 16:37
S82	6702585	remov\$3 or outlet or out or dispos\$3 or exit\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 16:38
S83	8396	S81 same S82	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 16:39
S84	1737	S83 and (fuel cell)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 16:39
S85	187	S84 and (condens\$3 and (burner or combust\$3) and reform\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 17:02

## EAST Search History

S86	73	"5366818"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 17:40
S87	3240	429/34.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 17:40
S88	5154	429/30,26,19.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 17:42
S89	660	S88 and S84	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/10 17:43